

REMARKS

The Office action of June 17, 2004 has been received and its contents carefully noted.

Claims 1-3, 5-7, and 13-16 are pending in the application. Claims 4, and 8-12 have been cancelled without prejudice.

The specification has been amended in accordance with the objections noted in the Action. In Figure 1, descriptive labels have been added for the box elements and a label of "Prior Art" has been added. In Figure 3, descriptive labels have been added for the box elements.

Claims 1-2 have been amended in accordance with 35 U.S.C. § 112, therefore making Claims 1-7 allowable in accordance with the Action. Note that these changes are non-narrowing and do not therefore substantively effect claim scope. Accordingly, the rejection of claims 1-7 based on Section 112, second paragraph should be withdrawn.

The cancellation of claims 8-12 renders the examiners rejection moot which was presented in accordance with Section 112, first paragraph in paragraph 10 of the office action.

Claims 5-6 have also been amended without changing claim scope. Claims 13-16 have been added. New Claims 13-16 should be favorably examined since they recite features already identified as allowable by the examiner.

Pursuant to 37 C.F.R. 1.117 and 1.136(a), the Applicant respectfully petitions for a one (1) month extension of time for filing a reply in connection with the present application, and the required fee of \$110.00 is attached.

Conclusion

In view of the amendments and remarks submitted above, it is respectfully submitted that all of the remaining claims are allowable and a Notice of Allowance is earnestly solicited.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies to charge payment or credit any overpayments to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§1.16 or 1.17; particularly, extension of time fees.


The Examiner is invited to contact the Clint Gerdine at (703) 205-8000 to discuss the application.

Respectfully submitted,

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Attachment: Amended Abstract

ABSTRACT

FFT demodulation of OFDM symbols is achieved using a frame synchronization pulse generated by deriving absolute values of successive complex samples of the OFDM symbol, determining the difference between such values and other values separated therefrom by a period representing the useful part of the OFDM symbol, integrating the difference values over a plurality of symbols and determining the sample position representing the point at which the integrated difference values substantially change.

~~{Figure 3 is to accompany the abstract}~~